

TYLER REFRIGERATION PIT
ADMINISTRATIVE RECORD FILE *
INDEX OF DOCUMENTS

I. SITE IDENTIFICATION

- 100985 1. Memorandum to Mr. Mike Apgar from Mr. Ron Stoufer, re: Chemical data on ground water samples collected from wells in Smyrna, 4/18/78. P. 100001-100013. The following are attached:
- a) Table 1, Concentrations in Water Collected from Wells in Smyrna on March 14, 1978;
 - b) Table 2, Data on Smyrna Well #2 when the Well was Constructed in 1958;
 - c) a memorandum regarding a summary report on the trichloroethylene contamination investigation in Smyrna, dated May 31, 1978;
 - d) three site location maps;
 - e) a memorandum regarding information about Tyler Refrigeration Waste Pit in relation to the trichloroethylene problem in Smyrna's wells, dated May 1, 1979.
- 100986 2. U.S. EPA Potential Hazardous Waste Site Identification and Preliminary Assessment, Tyler Refrigeration, 10/25/82. P. 100014-100042. Two Site Inspection reports, a letter regarding information about domestic wells in the vicinity of the site dated June 28, 1985, and a site location map are attached.
- 100989 3. Report: Preliminary Assessment and Site Inspection of Tyler Refrigeration, prepared by Ecology and Environment, Inc., 10/28/82. P. 100043-100146.
- 100995 4. Report: A Preliminary Assessment of Tyler Refrigeration, prepared by Delaware Department of Natural Resources and Environmental Control (DNREC), 12/83. P. 100147-100180.
- 100998 5. Report: Non-Sampling Site Inspection Using Available Information of Tyler Refrigeration, prepared by NUS Corporation, 6/10/85. P. 100181-100428.
- 101017

* Administrative Record File available 8/26/92, updated 9/9/93, 11/11/93, 12/6/93, 12/1/95, 2/12/96, 3/15/96, and 5/27/96.

101026 6. Report: A Field Trip Report for Tyler Refrigeration, prepared by NUS Corporation, 8/15/86. P. 100429-100473. Two cover letters and a memorandum dated July 21, 1986 requesting assistance from the Field Investigation Team (FIT) office are attached.

101036 7. Letter to Ms. Stephanie L. Papa, U.S. EPA, from Mr. David J. Carlson, Dames & Moore, re: Transmittal of sampling and groundwater investigation documents, 9/25/89. P. 100474-100570. The following are attached:

- a) a letter regarding analytical laboratory results, dated December 28, 1988;
- b) Table 1, Summary of Analytical Laboratory Data, Tyler Refrigeration, Smyrna, Delaware;
- c) Table 2, Summary of Analytical Laboratory Data, Tyler Refrigeration, Smyrna, Delaware;
- d) a Plot Plan Showing Monitoring Well Locations and Ground Water Flow Direction;
- e) a letter regarding the assessment of the direction of groundwater flow, dated May 2, 1989;
- f) a Clark Equipment Company table containing information on water levels;
- g) a Ground Water Flow map;
- h) Appendix A, Stevens Recorder Charts;
- i) an Analytical Report prepared by National Environmental Testing, Inc.

101038 8. Report: A Follow-Up Site Inspection of Tyler Refrigeration, prepared by DNREC, (undated).
101049 P. 100571-100970.

II. REMEDIAL ENFORCEMENT PLANNING

- 101053
1. Administrative Order On Consent For Remedial Investigation/Feasibility Study In The Matter Of: Tyler Refrigeration Pit, Clark Equipment Company, Respondent, Docket No. III-91-33-DC, 3/28/91. P. 200001-200036. Exhibit A, Summary Statement of Work, and Exhibit B, List of Documents, are attached.

III. REMEDIAL RESPONSE PLANNING

- 101058 1. Report: Preliminary Health Assessment for Tyler Refrigeration Pit, Smyrna, Delaware, prepared by the Agency for Toxic Substances and Disease Registry (ATSDR), 11/15/88. P. 300001-300004.
- 101062 2. Report: Draft Remedial Investigation/Feasibility Study (RI/FS) Work Plan, Tyler Refrigeration Pit Superfund Site, Smyrna, Delaware, prepared by Environmental Resources Management, Inc., 7/15/91. P. 300005-300319. A cover letter is attached.
- 101063
- 101064 3. Letter to Mr. David P. Steele, Environmental Resources Management, Inc., from Ms. Stephanie Dehnhard, U.S. EPA, re: Comments on the draft RI/FS Work Plan, 10/1/91. P. 300320-300347. Specific Comments on the RI/FS, a Quality Assurance Project Plan Review checklist, and Appendix A to the checklist are attached.
- 101065 4. Memorandum to file from Ms. Stephanie Dehnhard, U.S. EPA, re: Conference call to discuss EPA's comments on the RI/FS Work Plan, 10/24/91. P. 300348-300350.
- 101069 5. Letter to Ms. Stephanie Dehnhard, U.S. EPA, from Mr. David P. Steele, Environmental Resources Management, Inc., re: Summary of a conference call concerning the draft RI/FS Work Plan, 10/29/91. P. 300351-300354.
- 101077 6. Report: RI/FS Work Plan, Tyler Refrigeration Pit Superfund Site, Smyrna, Delaware, prepared by Environmental Resources Management, Inc., 11/12/91. P. 300355-300700. A cover letter is attached.
- 101078
- 101086 7. Letter to Ms. Stephanie Dehnhard, U.S. EPA, from Mr. David P. Steele, Environmental Resources Management, Inc., re: Information to aid in reviewing the revised draft RI/FS Work Plan, 12/5/91. P. 300701-300793. A table summarizing contents of the Work Plan and its components and the response to EPA's comments on the RI/FS Quality Assurance Project Plan are attached.
- 101088 8. Memorandum to Ms. Stephanie Dehnhard, U.S. EPA, from Mr. Jeffrey A. Dodd, U.S. EPA, re: Review comments on the revised Quality Assurance Project Plan, 12/17/91. P. 300794-300817. The Field Filtration Policy for Monitoring Well Groundwater Samples Requiring Metals Analysis, a Quality Assurance Project Plan Review checklist, and Appendix A to the checklist are attached.

- 101089 9. Letter to Mr. David P. Steele, Environmental Resources Management, Inc., from Ms. Stephanie Dehnhard, U.S. EPA, re: Comments on the revised RI/FS Work Plan, 2/11/92. P. 300818-300824. The comments are attached.
- 101090 10. Memorandum to file from Ms. Stephanie Dehnhard, U.S. EPA, re: Conference call to discuss EPA comments on the revised RI/FS Work Plan, 3/4/92. P. 300825-300827.
- 101093 11. Letter to Mr. David P. Steele, Environmental Resources Management, Inc., from Ms. Stephanie Dehnhard, U.S. EPA, re: Off-site shipment of hazardous substances, 3/10/92. P. 300828-300829.
- 101097 12. Letter to Ms. Shawne Rodgers, Environmental Resources Management, Inc., from Mr. Jeffrey A. Dodd, U.S. EPA, re: Example copies of EPA's Special Analytical Service (SAS) Requests for analytical methods, technical, and quality control requirements, 3/13/92. P. 300830-300847. Three SAS Requests and an article entitled "Procedures in Sedimentary Petrology" are attached.
- 101102 13. Report: RI/FS Work Plan, Tyler Refrigeration Pit
101104 Superfund Site, Smyrna, Delaware, prepared by Environmental Resources Management, Inc., 3/16/92. P. 300848-301296.
- 101109 14. Letter to Ms. Stephanie Dehnhard, U.S. EPA, from Mr. David P. Steele, Environmental Resources Management, Inc., re: Amended version of the RI/FS Work Plan, 3/16/92. P. 301297-301385. The amended version of the Work Plan and information concerning the Flooding Basin Used for Measuring Infiltration are attached.
- 101112 15. Letter to Mr. Jeffrey A. Dodd, U.S. EPA, from Ms. Shawne M. Rodgers, Environmental Resources Management, Inc., re: Environmental Resources Management, Inc.'s response to EPA's comments on the Quality Assurance Project Plan for the RI/FS, 3/25/92. P. 301386-301416. The following are attached:
- a) Response to EPA Comments Regarding the Quality Assurance Project Plan for the Remedial Investigation/Feasibility Study at the Tyler Refrigeration Pit Superfund Site (Revision 1);
 - b) Table 4-1, Containers, Preservatives, and Holding Times;
 - c) Figure 13-1, Corrective Action Form;

- d) Table 12-2, Validation of Vinyl Chloride Data by Method 8010;
- e) ERM's Laboratory Data Quality Assurance information;
- f) a Job Summary Sheet for Laboratory ID numbers 34-001 to -004;
- g) Tuning Procedures for Gas Chromatography/Mass Spectrometry (GC/MS) Analyses - 3/90 SOW;
- h) Table 5-4, Criteria for Instrument Performance Check;
- i) Laboratory Method Blanks information;
- j) Sample Analyses information;
- k) Scoring Qualifier Explanation information;
- l) two Organic Preaward Evaluation Sample Individual Laboratory Summary Reports;
- m) two Preaward Performance Evaluation Sample Score Sheets.

101115 16. Memorandum to Ms. Stephanie Dehnhard, U.S. EPA, from Mr. Jeffrey A. Dodd, U.S. EPA, re: Review comments on the second revision of the Quality Assurance Project Plan, 3/31/92. P. 301417-301436. A Quality Assurance Project Plan Review checklist and Appendix A, Data Reduction, Validation, and Reporting, are attached.

101116 17. Letter to Ms. Stephanie Dehnhard, U.S. EPA, from Mr. John Gysling, DNREC, re: Review of the RI/FS Work Plan revision, 5/7/92. P. 301437-301437.

101118 18. Letter to Mr. David P. Steele, Environmental Resources Management, Inc., from Ms. Stephanie Dehnhard, U.S. EPA, re: Review of the March 16, 1992 RI/FS work plan, 6/9/92. P. 301438-301450. A memorandum dated March 31, 1992 regarding review comments on the second revision of the Quality Assurance Project Plan, a Quality Assurance Project Plan Review checklist, and Appendix A, Data Reduction, Validation, and Reporting, are attached.

- 101120 19. Letter to Ms. Stephanie Dehnhard, U.S. EPA, from Mr. David P. Steele, Environmental Resources Management, Inc., re: Amended sections to the Work Plan for the RI/FS, 6/26/92. P. 301451-301537. The amended sections are attached.
- 101122 20. Letter to Mr. Jeffrey A. Dodd, U.S. EPA, from Ms. Shawne M. Rodgers, Environmental Resources Management, Inc., re: Response to EPA comments concerning the second revision to the RI/FS Quality Assurance Project Plan, 6/26/92. P. 301538-301543. The response is attached.
- 101124 21. Memorandum to Ms. Stephanie Dehnhard, U.S. EPA, from Mr. Jeffrey A. Dodd, U.S. EPA, re: Review comments on the second revision of the Quality Assurance Project Plan, 7/8/92. P. 301544-301546.
- 101127 22. Letter to Ms. Stephanie Dehnhard, U.S. EPA, from Mr. David P. Steele, Environmental Resources Management, Inc., re: Monthly progress report on activities in June 1992 for the RI/FS, 7/15/92. P. 301547-301548.
- 101129 23. Letter to Mr. David P. Steele, Environmental Resources Management, Inc., from Ms. Stephanie Dehnhard, U.S. EPA, re: Review of the revised sections of the RI/FS Work Plan and the Field Sampling Plan, 7/21/92. P. 301549-301552. A memorandum dated July 8, 1992 regarding Mr. Jeff Dodd's comments on the revised Quality Assurance Project Plan and the Geotechnical Analysis Comprehensive Quality Assurance Plan is attached.
- 101131 24. Letter to Ms. Stephanie Dehnhard, U.S. EPA, from Ms. Shawne M. Rodgers, Environmental Resources Management, Inc., re: Revised sections of the Quality Assurance Project Plan, 8/5/92. P. 301553-301553.
- 101133 25. Letter to Mr. David P. Steele, Environmental Resources Management, Inc., from Ms. Stephanie Dehnhard, U.S. EPA, re: Review of the response to comments on the Quality Assurance Project Plan, 8/13/92. P. 301554-301554.
- 101134 26. Facsimile transmittal sheet to Ms. Stephanie Dehnhard, U.S. EPA, from Mr. Jeff Dodd, U.S. EPA, re: Review of information sent by Environmental Resources Management, Inc. in response to EPA's comments on July 8, 1992, (undated). P. 301555-301558. A memorandum dated July 8, 1992 regarding review comments on the Quality Assurance Project Plan is attached.

- 101228 27. Report: Trip Report for RI/FS Oversight at the Tyler Refrigeration Pit Site, Smyrna, Delaware, prepared by Dynamac Corporation, 9/30/92. P. 301559-301717.
- 101229 28. Letter to Mr. David L. Jones, Clark Equipment Company, from Ms. Lisa Marino, U.S. EPA, re: Request for submittal of an amendment to the RI/FS Work Plan describing the additional investigative tasks necessary for the assessment, 12/23/92. P. 301718-301719.
- 101230 29. Report: Tyler Refrigeration Pit Superfund Site Remedial Investigation, Clark Equipment Company, prepared by Environmental Resources Management, Inc., 1/19/93. P. 301720-302004.
- 101231
- 101232 30. Report: Comments on the Remedial Investigation Report, Tyler Refrigeration Pit Site, Smyrna, Delaware, prepared by Dynamac Corporation, 2/10/93. P. 302005-302018.
- 101233 31. Letter to Ms. Lisa Marino, U.S. EPA, from Mr. David L. Jones, Clark Equipment Company, re: Data, information, and circumstances relating to the detection of TCA in monitoring well S-1, 2/11/93. P. 302019-302022.
- 101234 32. Letter to Ms. Lisa Marino, U.S. EPA, from Ms. M. Margie Zhang, DNREC, re: Comments and suggestions on the draft Remedial Investigation Report, 2/22/93. P. 302023-302026. Figure 1, Calculation of zone of pumping influence, and a graph of quality v. time for Smyrna Well #1 are attached.
- 101235 33. Letter to Ms. Lisa Marino, U.S. EPA, from Ms. M. Margie Zhang, DNREC, re: Comments and suggestions on the review of Mr. David Jones' letter dated February 11, 1993, 3/1/93. P. 302027-302031. Figure 1, Distribution pattern of TCA concentration, and a graph of quality v. time for Smyrna Well #1 are attached.
- 101236 34. Letter to Mr. David L. Jones, Clark Equipment Company, from Ms. Lisa Marino, U.S. EPA, re: Comments on the draft Remedial Investigation Report, 3/4/93. P. 302032-302049. The comments are attached.
- 101237 35. Letter to Ms. Margie Zhang, DNREC, from Ms. Lisa Marino, U.S. EPA, re: Review of proposal outlined in the letter dated March 1, 1993 and request for clarification on some points made by DNREC, 3/18/93. P. 302050-302051.

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36. Letter to Ms. Lisa Marino, U.S. EPA, from Ms. M. Margie Zhang, DNREC, re: Answers to questions asked in the letter dated March 18, 1993, 4/1/93. P. 302052-302058. Figure 1, Distribution pattern of TCA concentration; Figure 19.10, Capture-zone type curves for one, two, three and four wells; and handwritten notes on the calculation of the pumping rate for a recovery well are attached.

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37. Letter to Ms. Lisa Marino, U.S. EPA, from Mr. David P. Steele, Environmental Resources Management, Inc., re: Summary of responses to comments by EPA on the draft Remedial Investigation Report, 4/6/93. P. 302059-302078. The summary of responses to comments is attached.

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38. Letter to Ms. Lisa Marino, U.S. EPA, from Sathya Yalvigi and Mr. Camille Costa, Dynamac Corporation, re: Review and comments of the PRP's response to EPA comments on the draft Remedial Investigation Report, 4/15/93. P. 302079-302080.

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39. Memorandum to file from Ms. Lisa Marino, U.S. EPA, re: Summary of a meeting discussing the hydrogeological issues of the site, 4/19/93. P. 302081-302081.

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40. Letter to Mr. David L. Jones, Clark Equipment Company, from Ms. Lisa M. Marino, U.S. EPA, re: Ecological issues which should be addressed in the final Remedial Investigation Report, 4/19/93. P. 302082-302082.

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41. Memorandum to Ms. Lisa Marino, U.S. EPA, from Ms. Dawn A. Ioven, U.S. EPA, re: Information on the Baseline Risk Assessment, 4/20/93. P. 302083-302114. Fourteen tables and three toxicity profiles relating to the Baseline Risk Assessment are attached.

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42. Memorandum to file from Ms. Lisa Marino, U.S. EPA, re: Dynamac's remaining issue with the Remedial Investigation Report concerning the source of TCA/DCE contamination, 4/22/93. P. 302115-302115.

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43. Letter to Ms. Margie Zhang, DNREC, from Ms. Lisa M. Marino, U.S. EPA, re: Determination that there is not enough evidence to require additional investigation of the former lagoons and concurrence with the submitted proposal for remediation of the plume of the TCA/DCE contamination, 4/23/93. P. 302116-302116.

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44. Memorandum to Ms. M. Margie Zhang, DNREC, from Ms. Lisa M. Marino, U.S. EPA, re: Comments on the Baseline Risk Assessment, 5/20/93. P. 302117-302122.

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45. Letter to Ms. Lisa M. Marino, U.S. EPA, from Mr. David P. Steele and Ms. Robin Streeter, Environmental Resources Management, Inc., re: Comments on the draft Baseline Risk Assessment, 5/21/93. P. 302123-302128.
- 101355
46. Letter to Mr. David L. Jones, Clark Equipment Company, from Ms. Lisa M. Marino, U.S. EPA, re: Notice to Mr. Clark that the Feasibility Study does not need to be presented or developed, 5/26/93. P. 302129-302129.
- 101356
47. Letter to Ms. Lisa Marino, U.S. EPA, from Mr. David P. Steele, Environmental Resources Management, Inc., re: Final edits to the Remedial Investigation Report, 5/27/93. P. 302130-302145. The edits are attached.
- 101357
48. Letter to Mr. David L. Jones, Clark Equipment Company, from Ms. Lisa M. Marino, U.S. EPA, re: EPA's incorporation of comments on the Baseline Risk Assessment as an addendum and inquiry on the comment of the Location of Ground Water Sampling Locations, 6/2/93. P. 302146-302146.
- 101358
49. Memorandum to Ms. Lisa Marino, U.S. EPA, from Ms. Dawn Ioven, U.S. EPA, re: Summary of DNREC's comments and EPA's response to the comments, 6/3/93. P. 302147-302148.
- 101359
50. Letter to Mr. Robert Davis, U.S. EPA, from Mr. Robert Foley, U.S. Fish and Wildlife Service, re: Technical comments on the Ecological Risk Assessment, 6/1/93. P. 302149-302151.
- 101360
51. Letter to Ms. Lisa Marino, U.S. EPA, from David P. Steele, Environmental Resources Management, Inc., re: Preliminary comments on the Ecological Risk Assessment, 6/2/93. P. 302152-302155.
- 101361
52. Memorandum to Ms. Margie Zhang, DNREC, from Mr. Rob Allen, U.S. EPA, re: Review of the Ecological Risk Assessment, 6/4/93. P. 302156-302156.
- 101362
53. Memorandum to Mr. Bob Davis, U.S. EPA, from Ms. Lisa Marino, U.S. EPA, re: Comments on the Environmental Risk Assessment, 7/21/93. P. 302157-302158. A memorandum regarding a review of Environmental Resources Management's responses on the Remedial Investigation is attached.

101364 54. Letter to Ms. Lisa Marino, U.S. EPA, from Mr. David L. Jones, Clark Equipment Company, re: Summary of Environmental Resources Management's comments on the Ecological Risk Assessment, 10/7/93. P. 302159-302167. A letter regarding Environmental Resources Management's comments on the Ecological Risk Assessment is attached.

101365 55. Report: Tyler Refrigeration Ecological Risk Assessment, prepared by U.S. EPA, 10/27/93. P. 302168-302178.

101371 56. Letter to Mr. David L. Jones, Clark Equipment Company, from Ms. Lisa M. Marino, U.S. EPA, re: Responses to Environmental Resources Management's comments on the Ecological Risk Assessment, 10/28/93. P. 302179-302180.

101372 57. Letter to Ms. Lisa Marino, U.S. EPA, from Mr. David P. Steele, Environmental Resources Management, re: Comments on review of the final Ecological Risk Assessment, 11/29/93. P. 302181-302182.

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101382 58. Report: Remedial Investigation Report, Metal Masters Food Services Co., Inc., Smyrna, Delaware, Volume I, prepared by Groundwater Technology Inc., 6/2/95. P. 302183-302459. A transmittal letter dated August 14, 1995, is attached.

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101392 101396 59. Report: Remedial Investigation Report, Metal Masters Food Services Co., Inc., Smyrna, Delaware, Volume II, prepared by Groundwater Technology Inc., 6/2/95. P. 302460-303465.

101397 60. Final Plan of Remedial Action, Metal Masters Site, Smyrna, Delaware, prepared by Department of Natural Resources & Environmental Control, 10/95. P. 303466-303480. A facsimile cover sheet dated October 25, 1995, is attached.

101399 61. Proposed Plan, Tyler Refrigeration Pit Superfund Site, 2/96. P. 303481-303490.

101400 62. Letter to Ms. Lisa Marino, U.S. EPA, from Mr. Stephen F. Johnson, DNREC, re: DNREC's concurrence with the proposed plan except for EPA's decision to require future groundwater monitoring at the site, 2/7/96. P. 303491-303491.

- 101402 63. Memorandum of agreement between DNREC's Division of Air and Waste Management and Division of Water Resources for the Tyler Refrigeration Site Ground Water Management Zone, 2/96. P. 303492-303498. The following are attached:
- a) Attachment 1, site location map;
 - b) Attachment 2, site layout and monitoring wells;
 - c) Attachment 3, VOC concentrations in ground water;
 - d) Attachment 4, tax parcel map showing ground water management zone boundaries.
- 101403 64. Letter to Mr. Larry Brown and Ms. Lisa Marino, U.S. EPA, from Mr. Raymond E. Lees, Groundwater Technology, Inc., re: Comments on draft Proposed Plan, 3/19/96. P. 303499-303501.
- 101404 65. Record of Decision, Tyler Refrigeration Site, 5/96. P. 303502-303550.

V. COMMUNITY INVOLVEMENT/CONGRESSIONAL CORRESPONDENCE/IMAGERY

- 101406 1. Newspaper article entitled "McAllister, Wilson say site clean," Smyrna/Clayton Sun, 5/28/86. P. 500001-500001.
- 101407 2. Newspaper article entitled "Superfund location questioned," Smyrna Times, 2/26/87. P. 500002-500002.
- 101408 3. Newspaper article entitled "Metal Masters faces EPA in pollution responsibility," Wilmington News Journal, 9/25/90. P. 500003-500004.
- 101409 4. Letter to Concerned Citizen or Official from Ms. Amy J. Burrage, U.S. EPA, re: Error contained in September 1990 fact sheet, 10/5/90. P. 500005-500005.
- 101410 5. U.S. EPA Fact Sheet, re: Tyler Refrigeration Site, Smyrna, Delaware, 3/91. P. 500006-500009.
- 101412 6. EPA Environmental News entitled "EPA Executes a Consent Order with Clark Equipment Company to Conduct Investigations at the Tyler Refrigeration Superfund Site," 4/1/91. P. 500010-500011.
- 101413 7. U.S. EPA Fact Sheet, re: Tyler Refrigeration Site, Smyrna, Delaware, 9/91. P. 500012-500013.
- 101414 8. U.S. EPA Public Notice, re: Announcement of a public meeting for the Tyler Refrigeration Superfund Site, (undated). P. 500014-500014.
- 101415 9. U.S. EPA Fact Sheet, re: Completion of the Remedial Investigation for the Tyler Refrigeration Site, Smyrna, Delaware, 10/93. P. 500015-500016.